

INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP2004/018675

A. CLASSIFICATION OF SUBJECT MATTER
Int.Cl⁷ F16D3/224, B62D1/20

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
Int.Cl⁷ F16D3/224, B62D1/20

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
Jitsuyo Shinan Koho 1922-1996 Jitsuyo Shinan Toroku Koho 1996-2005
Kokai Jitsuyo Shinan Koho 1971-2005 Toroku Jitsuyo Shinan Koho 1994-2005

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X Y	Microfilm of the specification and drawings annexed to the request of Japanese Utility Model Application No. 10081/1988 (Laid-open No. 115021/1989) (Tokai Rubber Industries, Ltd.), 02 August, 1989 (02.08.89), Full text (Family: none)	1, 2, 6 3-5, 7
Y	Microfilm of the specification and drawings annexed to the request of Japanese Utility Model Application No. 127501/1983 (Laid-open No. 35920/1985) (Fuji Heavy Industries Ltd.), 12 March, 1985 (12.03.85), Full text; Figs. 2 to 3 (Family: none)	3-5

☒ Further documents are listed in the continuation of Box C. ☐ See patent family annex.

* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"E" earlier application or patent but published on or after the international filing date	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"O" document referring to an oral disclosure, use, exhibition or other means	"&" document member of the same patent family
"P" document published prior to the international filing date but later than the priority date claimed	

Date of the actual completion of the international search
20 April, 2005 (20.04.05)

Date of mailing of the international search report
10 May, 2005 (10.05.05)

Name and mailing address of the ISA/
Japanese Patent Office

Authorized officer

Facsimile No.

Telephone No.

INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP2004/018675

C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	JP 2003-130082 A (NTN Corp.), 08 May, 2003 (08.05.03), Full text & US 2003-83135 A1 & FR 2831626 A & CN 1414257 A	7
X Y	JP 57-4405 A (Lohr & Bromkamp GmbH.), 11 January, 1982 (11.01.82), Full text & US 4405032 A & GB 2075635 A & FR 2482013 A1 & ES 8201072 A & IT 1205432 B	1,6 2-5,7
X Y	JP 48-93839 A (Glaenzer Spicer), 04 December, 1973 (04.12.73), Full text & US 3817057 A & GB 1376005 A & DE 2240436 A & FR 2172580 A	1,6 2-5,7
X Y	Microfilm of the specification and drawings annexed to the request of Japanese Utility Model Application No. 89414/1989(Laid-open No. 28325/1991) (Toyoda Machine Works, Ltd.), 20 March, 1991 (20.03.91), Full text (Family: none)	1,6 2-5,7
X Y	CD-ROM of the specification and drawings annexed to the request of Japanese Utility Model Application No. 95206/1991(Laid-open No. 45252/1993) (Unisia Jecs Corp.), 18 June, 1993 (18.06.93), Full text (Family: none)	1,6 2-5,7
Y	Microfilm of the specification and drawings annexed to the request of Japanese Utility Model Application No. 30676/1993(Laid-open No. 87141/1994) (Mitsubishi Motors Corp.), 20 December, 1994 (20.12.94), Full text (Family: none)	7

From the INTERNATIONAL BUREAU

PCTNOTIFICATION CONCERNING
SUBMISSION OR TRANSMITTAL
OF PRIORITY DOCUMENT

(PCT Administrative Instructions, Section 411)

To:

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EHARA PATENT OFFICE
15-26, Edobori 1-chome, Nishi-ku
Osaka-shi, Osaka 5500002
JAPON

Date of mailing (day/month/year) 30 March 2005 (30.03.2005)	
Applicant's or agent's file reference FP04-058CT	IMPORTANT NOTIFICATION
International application No. PCT/JP04/018675	International filing date (day/month/year) 08 December 2004 (08.12.2004)
International publication date (day/month/year)	Priority date (day/month/year) 30 January 2004 (30.01.2004)
Applicant NTN CORPORATION et al	

- By means of this Form, which replaces any previously issued notification concerning submission or transmittal of priority documents, the applicant is hereby notified of the date of receipt by the International Bureau of the priority document(s) relating to all earlier application(s) whose priority is claimed. Unless otherwise indicated by the letters "NR", in the right-hand column or by an asterisk appearing next to a date of receipt, the priority document concerned was submitted or transmitted to the International Bureau in compliance with Rule 17.1(a) or (b).
- (If applicable)* The letters "NR" appearing in the right-hand column denote a **priority document which, on the date of mailing of this Form, had not yet been received by the International Bureau** under Rule 17.1(a) or (b). Where, under Rule 17.1(a), the priority document must be submitted by the applicant to the receiving Office or the International Bureau, but the applicant fails to submit the priority document within the applicable time limit under that Rule, **the attention of the applicant is directed** to Rule 17.1(c) which provides that no designated Office may disregard the priority claim concerned before giving the applicant an opportunity, upon entry into the national phase, to furnish the priority document within a time limit which is reasonable under the circumstances.
- (If applicable)* An asterisk (*) appearing next to a date of receipt, in the right-hand column, denotes a **priority document submitted or transmitted to the International Bureau but not in compliance with Rule 17.1(a) or (b)** (the priority document was received after the time limit prescribed in Rule 17.1(a) or the request to prepare and transmit the priority document was submitted to the receiving Office after the applicable time limit under Rule 17.1(b)). Even though the priority document was not furnished in compliance with Rule 17.1(a) or (b), the International Bureau will nevertheless transmit a copy of the document to the designated Offices, for their consideration. In case such a copy is not accepted by the designated Office as the priority document, Rule 17.1(c) provides that no designated Office may disregard the priority claim concerned before giving the applicant an opportunity, upon entry into the national phase, to furnish the priority document within a time limit which is reasonable under the circumstances.

<u>Priority date</u>	<u>Priority application No.</u>	<u>Country or regional Office or PCT receiving Office</u>	<u>Date of receipt of priority document</u>
30 January 2004 (30.01.2004)	2004-023977	JP	24 March 2005 (24.03.2005)

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